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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/603,062

06/26/2000

Bcong-Jo Kim

678-505 (P9425/IMT)

3341

66547 7590 05/14/2007  
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EXAMINER

PEZZLO, JOHN

ART UNIT

PAPER NUMBER

2616

MAIL DATE

DELIVERY MODE

05/14/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

09/603,062

Applicant(s)

KIM ET AL.

Examiner

John Pezzlo

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1 and 3-20 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1, 3-12, 15, 16, 19 and 20 is/are allowed.
- 6) ☒ Claim(s) 13, 14, 17 and 18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 6.26.2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 2/20/07.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 13, 14, 17, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wiese, Jr. (US 6,493,666 B2) hereinafter Wiese.

1. Regarding claims 13 and 14 and 17 and 18 – Wiese discloses (claims 13 and 14) receiving data frames and segmenting the data frames into frames in a number of frame matchers, the number of frame matchers being at least equal to the number of the transport channels, and multiplexing the frames to form the serial data frame, refer to Figures 3-6 and column 3 lines 17-28 and column 4 lines 3 to 26 and column 4 line 50 to column 5 line 15 and column 24 line 58 to column 27 line 63 and claim 1. Wiese discloses (claims 17 and 18) a demultiplexer for demultiplexing the serial data frame to frames of a plurality of transport channels, and a plurality of frame dematchers, the number of frame dematchers being at least equal to the number of transport channels, each frame dematcher having a frame desegmenter for receiving corresponding frames and for desegmenting the frames to transport channel frames,

refer to Figures 3-6 and column 3 lines 17-28 and column 4 lines 3 to 26 and column 4 line 50 to column 5 line 15 and column 27 line 65 to column 29 line 33 and claim 17.

Wiese does not explicitly disclose that the frames are transported over a radio channel.

At the time of the invention it would have been obvious to an ordinary person of skill in the art to provide radio channels as part of the transmission network.

The suggestion/motivation for doing so would have been that Wiese discloses saving resources and reducing costs by multiplexing individual channels and transmitting groups of data on a single transport stream especially where transport capacity is limited, refer to column 1 line 15 to column 2 line 35. This is the case for radio channels where power and bandwidth are limited resources. The benefit being that methods used and developed for the telephone transmission network can be re-engineered for the radio environment faster and with less time saving development dollars.

#### ***Allowable Subject Matter***

Claims 1, 3-12, 15, 16, 19, and 20 are allowable over the prior art.

#### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

1. Kim et al. (US 6,768,728 B1) discloses a device and method for exchanging frame messages of different lengths in CDMA communication system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Pezzlo whose telephone number is (571) 272-3090. The examiner can normally be reached on Monday to Friday from 8:30 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin, can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2600.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C.

or faxed to:

(571) 273-8300

For informal or draft communications, please label "PROPOSED" or "DRAFT"

Hand delivered responses should be brought to:

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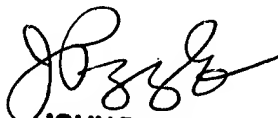
Alexandria, VA, 22313.

Application/Control Number: 09/603,062  
Art Unit: 2616

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John Pezzlo

7 May 2007



**JOHN PEZZLO**  
**PRIMARY EXAMINER**